

08/10/2005 10731498c.trn

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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:59:57 ON 10 AUG 2005

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

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Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:00:11 ON 10 AUG 2005

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STRUCTURE FILE UPDATES: 9 AUG 2005 HIGHEST RN 859282-03-4

DICTIONARY FILE UPDATES: 9 AUG 2005 HIGHEST RN 859282-03-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*

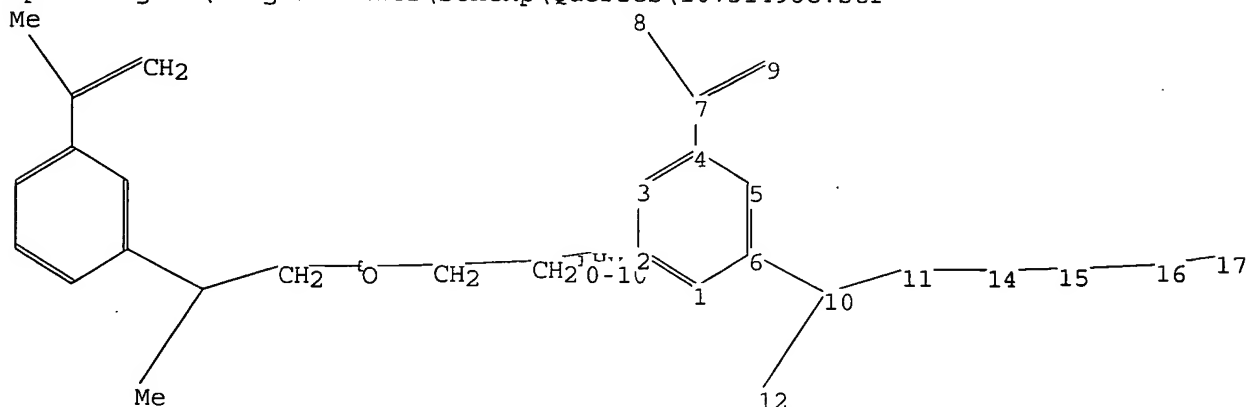
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10731498c.str



chain nodes :

7 8 9 10 11 12 14 15 16 17

ring nodes :

1 2 3 4 5 6

chain bonds :

4-7 6-10 7-8 7-9 10-11 10-12 11-14 14-15 15-16 16-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

16-17

exact bonds :

4-7 6-10 7-8 7-9 10-11 10-12 11-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
 11:CLASS 12:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom

Element Count :

Node 17: Unlimited

N,N1

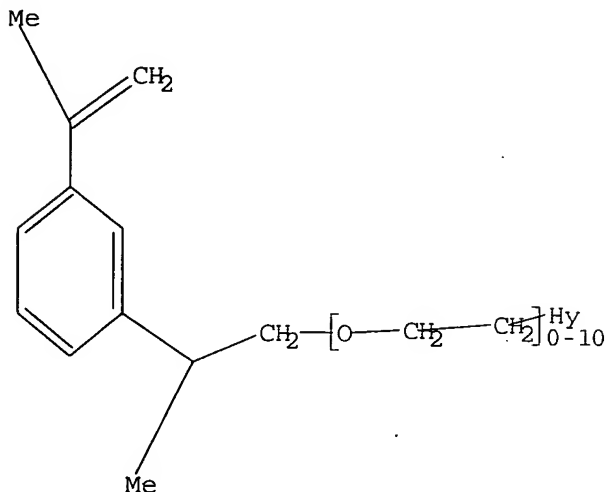
08/10/2005 10731498c.trn

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:00:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 357 TO ITERATE

100.0% PROCESSED 357 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 6007 TO 8273

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 11:00:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7398 TO ITERATE

100.0% PROCESSED 7398 ITERATIONS

SEARCH TIME: 00.00.01

9 ANSWERS

L3 9 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'HCAPLUS' ENTERED AT 11:00:37 ON 10 AUG 2005

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FILE COVERS 1907 - 10 Aug 2005 VOL 143 ISS 7  
FILE LAST UPDATED: 9 Aug 2005 (20050809/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4

7 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:269900 HCAPLUS

DOCUMENT NUMBER: 140:305217

TITLE: Functionalized styrene monomers for synthesis of rubbery polymers

INVENTOR(S): Halasa, Adel Farhan; Hsu, Wen-Liang

PATENT ASSIGNEE(S): The Goodyear Tire and Rubber Co., USA

SOURCE: U.S. Pat. Appl. Publ., 29 pp., Cont.-in-part of U.S. 6,693,160.

CODEN: USXXCO

DOCUMENT TYPE: Patent

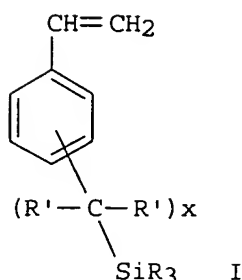
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004063884	A1	20040401	US 2003-661914	20030912
<del>US 6825306</del>	B2	20041130		
<del>US 6693160</del>	B1	20040217	US 2003-384020	20030307
US 2004122224	A1	20040624	US 2003-731498	20031209
US 2004122194	A1	20040624	US 2003-731782	20031209
US 2005049377	A1	20050303	US 2004-894562	20040720
US 2005006014	A1	20050113	US 2004-916385	20040810
<del>US 6901982</del>	B2	20050607		
US 2005131181	A1	20050616	US 2005-43589	20050126
PRIORITY APPLN. INFO.:			US 2002-404081P	P 20020816
			US 2002-434892P	P 20021219
			US 2003-384020	A2 20030307
			US 2003-389131	A3 20030314
			US 2003-624188	A2 20030722
			US 2003-661914	A3 20030912

GI



AB The present invention relates to a rubbery polymer which is comprised of repeat units that are derived from (1) at least one conjugated diolefin monomer, and (2) at least one functionalized monomer I, wherein the R' groups in repeat units and in different repeat units can be the same or different and represent hydrogen atoms or alkyl groups containing from 1 to about 4 carbon atoms, wherein x represents an integer from 1 to about 10, and wherein the R groups in repeat units and in different repeat units can be the same or different and represent alkyl groups containing from 1 to about 10 carbon atoms or alkoxy groups containing from 1 to about 10 carbon atoms. Alternatively, the functionalized monomers can contain cyclic amine functional groups. (3/4)-(2-Pyrrolidinoethyl)styrene was prepared from divinylbenzene and pyrrolidone and polymerized with styrene and butadiene to give a rubber.

IT **676316-18-0P**

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(rubber; functionalized styrene monomers for synthesis of rubbery polymers)

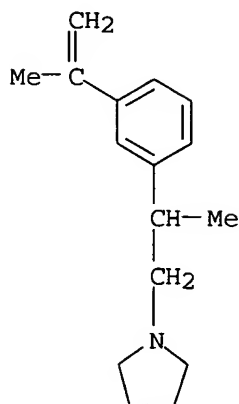
RN 676316-18-0 HCAPLUS

CN Pyrrolidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]-, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 174572-10-2

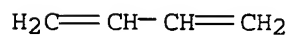
CMF C16 H23 N



CM 2

CRN 106-99-0

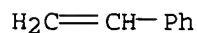
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:171903 HCAPLUS

DOCUMENT NUMBER: 124:204665

TITLE: Elastomers and products having reduced hysteresis and their preparation

INVENTOR(S): Hall, James E.; Lawson, David F.; Antkowiak, Thomas A.

PATENT ASSIGNEE(S): Bridgestone Corp., Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 693505	A1	19960124	EP 1995-110835	19950711
EP 693505	B1	19990506		

R: DE, ES, FR, GB, IT

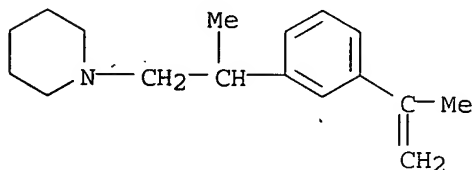
ES 2132467	T3	19990816	ES 1995-110835	19950711
JP 08048707	A2	19960220	JP 1995-200556	19950713
CA 2153946	AA	19960119	CA 1995-2153946	19950714
PRIORITY APPLN. INFO.:			US 1994-276362	A 19940718

AB A process for title rubbers involves polymerizing 30-100% dienes and 0-70% vinyl aromatic compds. in aprotic solvents in the presence of anionic initiators prepared by reacting organic Li compds. with precursor functionalizing agents which are reaction product of heterocyclic secondary amines and diisopropenylbenzene derivs. A block SBR was prepared in the presence of 5.5 m-mol BuLi and 5.5 m-mol 2-(1-hexamethyleneimino)propyl-3-isopropenylbenzene (I; from hexamethyleneimine and diisopropenylbenzene) and was compounded and vulcanized to form a product with tan $\delta$  of 0.108 at 50°, vs. 0.179 for a block SBR prepared without the I.

IT **57236-00-7P 174572-09-9P 174572-10-2P**  
 RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation);  
 USES (Uses)  
 (organic lithium compds. and diisopropenylbenzene/secondary cyclic amine products as initiators for preparation of diene rubbers with low hysteresis)

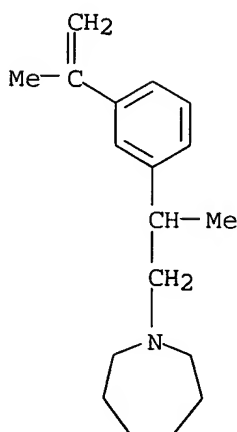
RN 57236-00-7 HCAPLUS

CN Piperidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



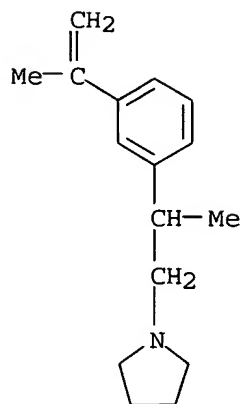
RN 174572-09-9 HCAPLUS

CN 1H-Azepine, hexahydro-1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



RN 174572-10-2 HCAPLUS

CN Pyrrolidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:104722 HCAPLUS

DOCUMENT NUMBER: 94:104722

TITLE: Solvent composition for polychloroprene rubber in the production of an adhesive

INVENTOR(S): Ovanesov, G. T.; Malkhasyan, A. Ts.; Petrosyan, L. I.; Sarkisyan, Z. G.; Sukiasyan, G. G.; Mirakyan, S. M.

PATENT ASSIGNEE(S): All-Union Scientific-Research and Design Institute of Polymeric Products, USSR; "Nairit" Scientific Industrial Enterprises

SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1980, (38), 144.

CODEN: URXXAF

DOCUMENT TYPE: Patent

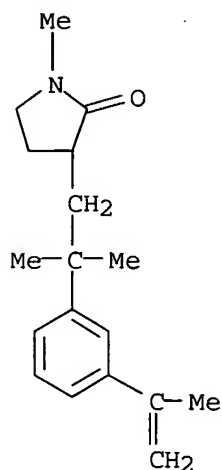
LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

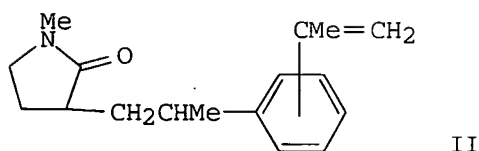
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 771124	T	19801015	SU 1978-2676764	19781023
PRIORITY APPLN. INFO.:			SU 1978-2676764	A 19781023
AB The production time and viscosity are decreased for the title adhesive by addition of 0.1-0.7% 1-methyl-3-[2-methyl-2-(3-isopropenylphenyl)ethyl]-2-pyrrolidinone [76663-38-2] to the title solvent composition containing 39.7-59.9% EtOAc [141-78-6] and 40.0-59.6 % ligroine.				
IT 76663-38-2				
RL: USES (Uses)				
(solvent compns. containing, for neoprene rubber adhesives)				
RN 76663-38-2 HCAPLUS				
CN 2-Pyrrolidinone, 1-methyl-3-[2-methyl-2-[3-(1-methylethenyl)phenyl]propyl]-(9CI) (CA INDEX NAME)				

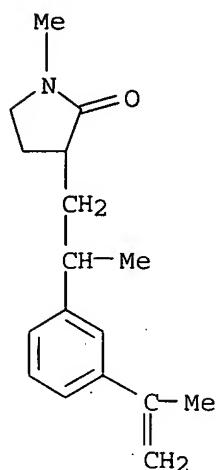




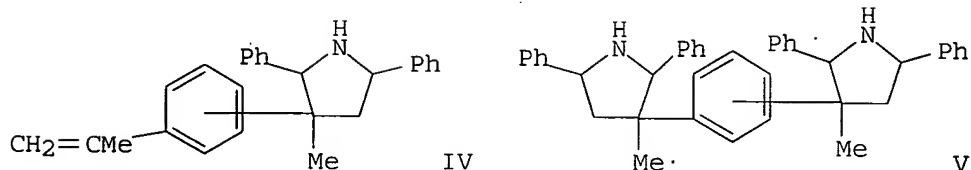
L4 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1977:5252 HCAPLUS  
 DOCUMENT NUMBER: 86:5252  
 TITLE: Alkylation of N,N-diethylacetamide and  
 N-methylpyrrolidinone with m- and p-  
 diisopropenylbenzenes  
 AUTHOR(S): Malkhasyan, A. Ts.; Sukiasyan, G. G.; Martirosyan, G.  
 T.  
 CORPORATE SOURCE: Vses. Nauchno-Issled. Proektn. Inst. Polim. Prod.,  
 Yerevan, USSR  
 SOURCE: Armyanskii Khimicheskii Zhurnal (1976), 29(6), 537-8  
 CODEN: AYKZAN; ISSN: 0515-9628  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 86:5252  
 GI



AB The title alkylation of AcNEt<sub>2</sub> (I) in the presence of Na gave  
 Et<sub>2</sub>NCOCH<sub>2</sub>CH<sub>2</sub>CHMeC<sub>6</sub>H<sub>4</sub>CMe:CH<sub>2</sub> (m- or p-); m- or p-II were obtained by the  
 similar alkylation of N-methylpyrrolidinone (III). P-C<sub>6</sub>H<sub>4</sub>(CMe:CH<sub>2</sub>)<sub>2</sub> was a  
 better alkylating agent than the meta isomer and III was alkylated easier  
 than I. Reaction of I and III with m- or p-II gave the dialkylated  
 products.  
 IT 61123-36-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 61123-36-2 HCAPLUS  
 CN 2-Pyrrolidinone, 1-methyl-3-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI)  
 (CA INDEX NAME)



L4 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1976:559547 HCAPLUS  
 DOCUMENT NUMBER: 85:159547  
 TITLE: Reaction of m- and p-diisopropenylbenzenes with  
 N-alkylimines  
 AUTHOR(S): Asratyan, L. V.; Malkhasyan, A. Ts.; Martirosyan, G.  
 T.  
 CORPORATE SOURCE: Vses. Nauchno-Issled. Proektn. Inst. Polim. Prod.,  
 Yerevan, USSR  
 SOURCE: Armyanskii Khimicheskii Zhurnal (1976), 29(4), 318-22  
 CODEN: AYKZAN; ISSN: 0515-9628  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 85:159547  
 GI



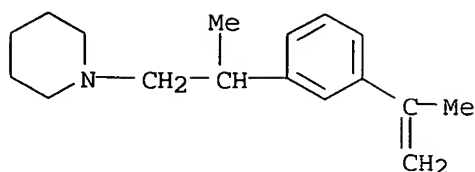
AB Reaction of m- and p-(CH<sub>2</sub>:CMe)2C<sub>6</sub>H<sub>4</sub> (p-I) with Me<sub>2</sub>CHCH:NR (R = cyclohexyl) in the presence of Na gave a mixture of H<sub>2</sub>C:CMeC<sub>6</sub>H<sub>4</sub>CHMeCH<sub>2</sub>CMe<sub>2</sub>CH:NR (II) and (RN:CHCMe<sub>2</sub>CH<sub>2</sub>CHMe)2C<sub>6</sub>H<sub>4</sub> (III), the amount of each being determined by the reaction conditions. Reaction of I with PhCH:NCH<sub>2</sub>Ph in the presence of Na gave a mixture of IV and V. Acid hydrolysis of II and III gave the corresponding aldehydes.

IT 57236-00-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 57236-00-7 HCAPLUS

CN Piperidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:16882 HCAPLUS

DOCUMENT NUMBER: 84:16882

TITLE: Amination and imination of m- and p-(β-dialkylaminoisopropyl)-α-methylstyrenes

AUTHOR(S): Asratyan, L. V.; Malkhasyan, A. Ts.; Kazaryan, A. Ts.; Martirosyan, G. T.

CORPORATE SOURCE: Vses. Nauchno-Issled. Proektn. Inst. Polim. Prod., Yerevan, USSR

SOURCE: Armyanskii Khimicheskii Zhurnal (1975), 28(8), 628-32  
CODEN: AYKZAN; ISSN: 0515-9628

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 84:16882

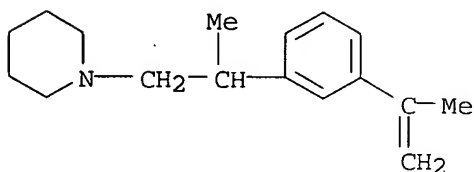
AB Reaction of 6 m- or p-R<sub>2</sub>NCH<sub>2</sub>CHMeC<sub>6</sub>H<sub>4</sub>CMe:CH<sub>2</sub> (I; R = Et, R<sub>2</sub>N = morpholino, piperidino) with R<sub>1</sub>2NH (R<sub>1</sub> = Me, R<sub>1</sub>2N = piperidino) in the presence of Na gave 71.9-87.4% m- or p-R<sub>2</sub>NCH<sub>2</sub>CHMeC<sub>6</sub>H<sub>4</sub>CHMeCH<sub>2</sub>NR<sub>1</sub>2. Reaction of I (R = Et, R<sub>2</sub>N = morpholino) with Me<sub>2</sub>CHCH:NR<sub>2</sub> (R<sub>2</sub> = cyclohexyl) in the presence of Na gave R<sub>2</sub>NCH<sub>2</sub>CHMeC<sub>6</sub>H<sub>4</sub>CHMeCH<sub>2</sub>CMe<sub>2</sub>CH:NR<sub>2</sub>, which was hydrolyzed to give R<sub>2</sub>NCH<sub>2</sub>CHMeC<sub>6</sub>H<sub>4</sub>CHMeCH<sub>2</sub>CMe<sub>2</sub>CHO.

IT 57236-00-7 57236-04-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with secondary amines)

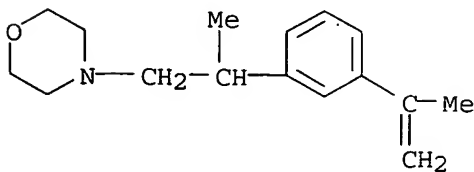
RN 57236-00-7 HCAPLUS

CN Piperidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



RN 57236-04-1 HCAPLUS

CN Morpholine, 4-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:592701 HCAPLUS

DOCUMENT NUMBER: 83:192701

TITLE: Amination of m- and p-diisopropenylbenzenes by secondary amines

AUTHOR(S): Asratyan, L. V.; Grigoryan, E. A.; Malkhasyan, A. Ts.; Martirosyan, G. T.

CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Polim. Prod., Yerevan, USSR

SOURCE: Armyanskii Khimicheskii Zhurnal (1975), 28(7), 551-4  
CODEN: AYKZAN; ISSN: 0515-9628

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 83:192701

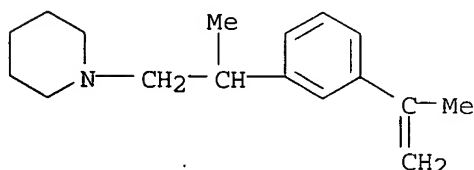
AB Amination of m- and p-H<sub>2</sub>C:CMcC<sub>6</sub>H<sub>4</sub>CMe:CH<sub>2</sub> with R<sub>2</sub>NH[R<sub>2</sub> = Me<sub>2</sub>, Et<sub>2</sub>, (CH<sub>2</sub>)<sub>5</sub>, (CH<sub>2</sub>)<sub>2</sub>O(CH<sub>2</sub>)<sub>2</sub>] gave m-, and p-H<sub>2</sub>C:CMcC<sub>6</sub>H<sub>4</sub>CHMeCH<sub>2</sub>NR<sub>2</sub> or m-, and p-C<sub>6</sub>H<sub>4</sub>(CHMeCH<sub>2</sub>NR<sub>2</sub>)<sub>2</sub>; reaction conditions determined whether mono- or diamines were obtained.

IT 57236-00-7P 57236-04-1P 57236-14-3P  
57236-18-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

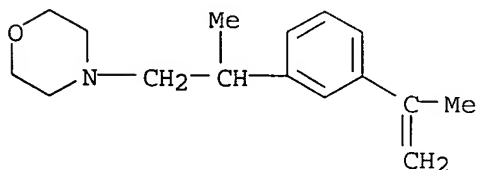
RN 57236-00-7 HCAPLUS

CN Piperidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



RN 57236-04-1 HCAPLUS

CN Morpholine, 4-[2-[3-(1-methylethenyl)phenyl]propyl]- (9CI) (CA INDEX NAME)



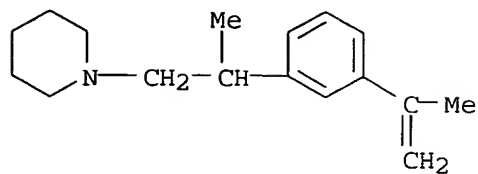
RN 57236-14-3 HCAPLUS

CN Piperidine, 1-[2-[3-(1-methylethenyl)phenyl]propyl]-, compd. with 2,4,6-trinitrophenol (9CI) (CA INDEX NAME)

CM 1

CRN 57236-00-7

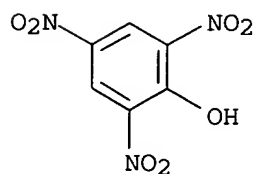
CMF C17 H25 N



CM 2

CRN 88-89-1

CMF C6 H3 N3 O7



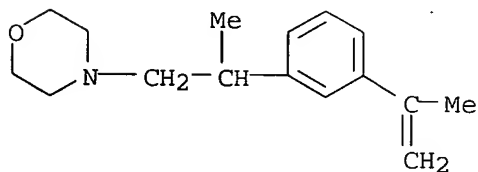
RN 57236-18-7 HCAPLUS

CN Morpholine, 4-[2-[3-(1-methylethenyl)phenyl]propyl]-, compd. with  
2,4,6-trinitrophenol (9CI) (CA INDEX NAME)

CM 1

CRN 57236-04-1

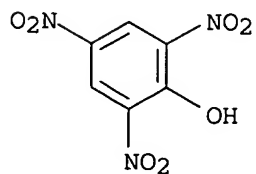
CMF C16 H23 N O



CM 2

CRN 88-89-1

CMF C6 H3 N3 O7



=> log y

08/10/2005 10731498c.trn

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	37.03	198.57
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.11	-5.11

STN INTERNATIONAL LOGOFF AT 11:00:54 ON 10 AUG 2005